

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1 – 8. Cancelled.

9. (Currently amended): A composite material comprising a biodegradable polymeric material and calcium phosphate in the biodegradable polymeric material,

wherein the calcium phosphate is contained in the biodegradable polymeric material in a ~~composition~~ gradient of calcium phosphate that varies in the biodegradable polymeric material,

wherein the biodegradable polymeric material is selected from the group consisting of glycosaminoglycan, collagen, and a composite of glycosaminoglycan and collagen and

said ~~composition~~ gradient of calcium phosphate is formed by alternately soaking one side ~~or part~~ of the biodegradable polymeric material in a calcium ion-containing solution and the same other side ~~or part~~ in a phosphate ion-containing solution.

10. (Previously Presented): The composite material according to claim 9, wherein the biodegradable polymeric material is a crosslinked product of glycosaminoglycan and collagen.

11. (Previously Presented): A scaffold for cell differentiation and proliferation comprising the composite material according to claim 9 and one or more components selected from the group consisting of basic fibroblast growth factors (bFGF), vascular endothelial growth factors (VEGF), bone morphogenetic factors (BMP), and inorganic salts comprising calcium salt.

12. Cancelled.

13. Cancelled.

14. (Currently Amended): The ~~implant~~ scaffold according to claim ~~13~~ 11, which further comprises cells.

15. (Withdrawn – Currently amended): A method for producing the composite material according to claim [[1]] 9 by alternately soaking one side ~~or part~~ of the biodegradable polymeric material in a calcium ion-containing solution and the same ~~other~~ side ~~or part~~ in a phosphate ion-containing solution.

16. (Previously Presented): The scaffold according to claim 11, wherein the scaffold is porous.

17. (Currently amended): The scaffold according to claim 9, wherein the composition gradient of calcium phosphate is a constant ~~continuous~~ gradient.